Cluster Statement		Standard	Keep or Propose Change	Type of Change: Removed, Re-written, Broken Up	Quality Standard Rule #	Reason for Proposed Change
Represent and solve problems involving multiplicati on and division.		3.OA.6 Understand division as an unknown-factor problem.	Keep			
Represent and solve problems involving multiplicati on and division.	3.OA.2	3.OA.2 Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.	Keep			
Represent and solve problems involving multiplicati on and division.	3.OA.3	3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	Keep			
Represent and solve problems involving multiplicati on and division.	3.OA.4	3.OA.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	Keep			

Understand properties of multiplicati on and the relationship between multiplicati on and division.		3.OA.5 Apply properties of operations as strategies to multiply and divide. (Students need not use formal terms for these properties.)	Keep			
Understand properties of multiplicati on and the relationship between multiplicati on and division.		3.OA.6 Understand division as an unknown-factor problem. For example, find 32/8 by finding the number that makes 32 when multiplied by 8.	Keep			
Multiply and divide within 100.	3.OA.7	3.OA.7a. Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5 = 40, one knows 40 ÷ 5 = 8) or properties of operations. 3.OA.7b.By the end of Grade 3, know-from memory, all products of two one-digit numbersDemonstrate fluency for all products of two one-digit numbers.	Propose change	Re-written	#1	We believe third graders need more time to develop their multiplication understanding. They would work on strategies for all factors, but would need to know from memory all products of two one-digit numbers by the end of fourth grade.

Solve problems involving the four operations, and identify and explain patterns in arithmetic.	3.OA.8	3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. (This standard is limited to problems posed with whole numbers and having whole number answers; students should know how to perform operations in the conventional order when there are no parentheses to specify a particular order [Order of Operations].)	Keep		
Solve problems involving the four operations, and identify and explain patterns in arithmetic.		3.OA.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.	Keep		
Use place value understand ing and properties of operations to perform multi-digit arithmetic. (A range of algorithms may be used)	3.NBT. 1	3.NBT.1 Use place value understanding to round whole numbers to the nearest 10 or 100.	Кеер		

value	2	3.NBT.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value,	Keep		
understand		properties of operations, and/or the relationship			
ing and		between addition and subtraction.			
properties					
of					
operations					
to perform					
multi-digit					
arithmetic.					
(A range of					
algorithms					
may be					
used)					
		3.NBT.3 Multiply one-digit whole numbers by	Keep		
		multiples of 10 in the range 10–90 (e.g., 9 × 80, 5 ×			
understand		60) using strategies based on place value and			
ing and		properties of operations.			
properties					
of					
operations					
to perform					
multi-digit					
arithmetic.					
(A range of					
algorithms					
may be					
used)					
· ·		3.NF.1 Understand a fraction 1/b as the quantity	Change		.add examples.
understand		formed by 1 part when a whole is partitioned into b			
ing of		equal parts (example: 1 part out of 4 equal parts is			
fractions as		the same as 1/4); understand a fraction a/b as the			
numbers.		quantity formed by a parts of size 1/b. (example:3/4			
		is the same as 3 one-fourths (1/4, 1/4, 1/4)			

Develop	3 NF 2	3.NF.2 Understand a fraction as a number on the	Keep		
understand	J.1 11 .Z	number line; represent fractions on a number line	. 100р		
ing of		diagram.			
fractions as		2a. Represent a fraction 1/b on a number line			
numbers.		diagram by defining the interval from 0 to 1 as the			
11011120101		whole and partitioning it into b equal parts.			
		Recognize that each part has size 1/b and that the			
		endpoint of the part based at 0 locates the number			
		1/b on the number line.			
		2b. Represent a fraction a/b on a number line			
		diagram by marking off a lengths 1/b from 0.			
		Recognize that the resulting interval has size a/b and			
		that its endpoint locates the number a/b on the			
		number line.			
Develop		3.NF.3 Explain equivalence of fractions in special	Keep		
understand		cases, and compare fractions by reasoning about			
ing of		their size.			
fractions as		3a.Understand two fractions as equivalent (equal) if			
numbers.		they are the same size, or the same point on a			
		number line.			
		3b. Recognize and generate simple equivalent			
		fractions, e.g., $1/2 = 2/4$, $4/6 = 2/3$. Explain why the			
		fractions are equivalent, e.g., by using a visual			
		fraction model.			
		3c. Express whole numbers as fractions, and			
		recognize fractions that are equivalent to whole			
		numbers.			
		3d. Compare two fractions with the same numerator			
		or the same denominator by reasoning about their			
		size. Recognize that comparisons are valid only			
		when the two fractions refer to the same whole.			
		Record the results of comparisons with the symbols,			
		=, or			

Calus	0.145.4	OMD 4 Tall and units time to the control of	0		I.a.	Indian manufacture 10 mm to 10 d
Solve	3.MD.1	3.MD.1 Tell and write time to the nearest minute and	Change	re-written	1	keep wording consistent with grades 1 &
problems		measure time intervals in minutes, using an analog				2.
involving		and digital clock. Solve word problems involving				
measurem		addition and subtraction of time intervals in minutes,				
ent and		e.g., by representing the problem on a number line				
estimation		diagram.				
of intervals						
of time,						
liquid						
volumes,						
and						
masses of						
objects.						
Solve	3.MD.2	3.MD.2 Measure and estimate liquid volumes and	Keep			
problems		masses of objects using standard units of grams (g),				
involving		kilograms (kg), and liters (l). (Excludes compound				
measurem		units such as cm3 and finding the geometric volume				
ent and		of a container.) Add, subtract, multiply, or divide to				
estimation		solve one-step word problems involving masses or				
of intervals		volumes that are given in the same units, e.g., by				
of time,		using drawings (such as a beaker with a				
liquid		measurement scale) to represent the problem.				
volumes,		(Excludes multiplicative comparison problems				
and		[problems involving notions of "times as much"; see				
masses of		Glossary, Table 2])				
objects.		, , , , , , , , , , , , , , , , , , ,				
Represent	3.MD.3	3.MD.3 Draw a scaled picture graph and a scaled	keep			
and		bar graph to represent a data set with several	'			
interpret		categories. Solve one- and two-step "how many				
data.		more" and "how many less" problems using				
		information presented in scaled bar graphs.				
Represent	3.MD.4	3.MD.4 Generate measurement data by measuring	keep			
and		lengths using rulers marked with halves and fourths	•			
interpret		of an inch. Show the data by making a line plot,				
data.		where the horizontal scale is marked off in				
		appropriate units— whole numbers, halves, or				
		quarters.				

Geometric	2 MD 5	3.MD.5 Recognize area as an attribute of plane	Keep		
	פ.עועו.ט	·	veeh		
measurem		figures and understand concepts of area			
ent:		measurement.			
understand		5a. A square with side length 1 unit, called "a unit			
concepts of		square," is said to have "one square unit" of area,			
area and		and can be used to measure area.			
relate area		5b. A plane figure which can be covered without			
to		gaps or overlaps by n unit squares is said to have an			
multiplicati		area of n square units.			
on and to		'			
addition.					
_					
Geometric	3.MD.6	3.MD.6 Measure areas by counting unit squares	Keep		
Geometric measurem	3.MD.6	3.MD.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and	Keep		
	3.MD.6	(square cm, square m, square in, square ft, and	Keep		
measurem ent:			Keep		
measurem ent: understand		(square cm, square m, square in, square ft, and	Keep		
measurem ent: understand concepts of		(square cm, square m, square in, square ft, and	Keep		
measurem ent: understand concepts of area and		(square cm, square m, square in, square ft, and	Keep		
measurem ent: understand concepts of		(square cm, square m, square in, square ft, and	Keep		
measurem ent: understand concepts of area and relate area to		(square cm, square m, square in, square ft, and	Keep		
measurem ent: understand concepts of area and relate area to multiplicati		(square cm, square m, square in, square ft, and	Keep		
measurem ent: understand concepts of area and relate area to multiplicati on and to		(square cm, square m, square in, square ft, and	Keep		
measurem ent: understand concepts of area and relate area to multiplicati		(square cm, square m, square in, square ft, and	Keep		

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		3.MD.7 Relate area to the operations of	Keep			
measurem		multiplication and addition.				
ent:		7a. Find the area of a rectangle with whole-number				
understand		side lengths by tiling it, and show that the area is the				
concepts of		same as would be found by multiplying the side				
area and		lengths.				
relate area		7b. Multiply side lengths to find areas of rectangles				
to		with whole number side lengths in the context of				
multiplicati		solving real world and mathematical problems, and				
on and to		represent whole-number products as rectangular				
addition.		areas in mathematical reasoning.				
		7c. Use tiling to show in a concrete case that the				
		area of a rectangle with whole-number side lengths a				
		and b + c is the sum of a x b and a x c. Use area				
		models to represent the distributive property in				
		mathematical reasoning.				
		7d. Recognize area as additive. Find areas of				
		rectilinear figures by decomposing them into non-				
		overlapping rectangles and adding the areas of the				
		non-overlapping parts, applying this technique to				
		solve real world problems.				
Geometric		3.MD.8 Solve real world and mathematical problems	Keep			
measurem		involving perimeters of polygons, including finding				
ent:		the perimeter given the side lengths, finding an				
recognize		unknown side length, and exhibiting rectangles with				
perimeter		the same perimeter and different areas or with the				
as an		same area and different perimeters.				
attribute of		same area and amerent perimeters.				
plane						
figures and						
distinguish						
between						
linear and						
area						
measures.	3 MD 0	3.MD.9 Determine the value of a collection of money	New		2	We added the manay standard to make
	3.เงเบ.ษ	·	inew		 ^	We added the money standard to make
		using dollar sign and decimal point appropriately.				connections between grade levels.
		Understand that the digits to the right of the decimal				
		represent parts of a whole dollar.				

Reason with shapes and their attributes.	3.G.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.			
Reason with shapes and their attributes.	3.G.2 Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and descrive the area of each part as 1/4 of the area of a shape.	Keep		